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Modern Electric, Hybrid Electric, and Fuel Cell Vehicles provides the needed analytic foundation for this vehicle revolution." ? Daniel Kammen, University of California, Berkeley, USA "This book clearly explains the mechanical and electrical principles of the modern hybrid electric powertrains.

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(PDF) Modern Electric, Hybrid Electric & Fuel Cell ...

Since 2005, the textbook Modern Electric, Hybrid Electric, and Fuel Cell Vehicles: Fundamentals, Theory, and Design has introduced electrical engineering, mechanical engineering, and computer engineering students to hybrid vehicles. It has also provided a much-needed reference for working engineers.

Review: Modern Electric, Hybrid Electric, and Fuel Cell ...

Building on the foundation of the bestselling first edition, Modern Electric, Hybrid Electric, and Fuel Cell Vehicles: Fundamentals, Theory, and Design, Second Edition updates and expands its detailed coverage of the vehicle technologies that offer the most promising solutions to these issues affecting the automotive industry.

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Mike started with Modern Electric Co. in 1995 and has been a highly valued superintendent for Modern Electric Co. since 2011 and has over 34 years of experience in the electrical construction industry. His duties include project coordination, layout of electrical systems, reviewing plans and specifications, estimating projects and coordination ...

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“The third edition covers extensive topics in modern electric, hybrid electric, and fuel cell vehicles, in which the profound knowledge, mathematical modeling, simulations, and control are clearly presented. Featured with design of various vehicle drivetrains, as well as a multi-objective optimization software, it is an estimable work to meet ...

Modern Electric, Hybrid Electric, and Fuel Cell Vehicles ...

Modern Electric, Hybrid Electric and Fuel cells. Contents: 1 Environmental Impact and History of Modern Transportation. 2 Fundamentals of Vehicle Propulsion and Brake

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design, HEV configurations, electric propulsion systems, series/parallel/mild hybrid electric drive train design methodologies, energy storage systems, regenerative braking, fuel cells and their applications in vehicles, and fuel cell hybrid electric drive train design. It emphasizes the overall drive train system and not just specific components.

Fundamentals, Theory, and Design

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Modern Electric, Hybrid Electric, and Fuel Cell Vehicles: Fundamentals, Theory, and Design, Second Edition (Power Electronics and Applications Series) Mehrdad Ehsani, Yimin Gao, Ali Emadi. a great book while learning about vehicle and engine characteristics, to then further expand on hybrid and electric vehicle applications ...

Modern Electric, Hybrid Electric, and Fuel Cell Vehicles ...

M. Ehsani, Y. Gao, S. Gay and A. Emadi, "Modern Electric, Hybrid Electric, and Fuel Cell Vehicles Fundamentals, Theory, and Design," CRC Press, New York, 2004, p ...

M. Ehsani, Y. Gao, S. Gay and A. Emadi, "Modern Electric ...

But the first Toyota Prius, a gasoline-electric hybrid introduced in Japan in 1997, was the catalyst for change. Today, electrified and alternative powertrains are now part of mainstream conversation. Even fuel cell electric vehicles (FCEV) are increasingly a part of discussion.

Hybrid vs. Electric Cars: How They Work - J.D. Power

Modern Electric, Hybrid Electric, and Fuel Cell Vehicles focuses on the fundamentals, theory, and design of conventional cars with internal combustion engines (ICE), electric vehicles (EV), hybrid electric vehicles (HEV), and fuel cell vehicles (FCV). It presents vehicle performance, configuration, control strategy, design methodology, modeling, and simulation for different conventional and modern vehicles based on the mathematical equations.

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